



**Figure S2. PARylation levels affect the assembly dynamics of hnRNP A1-associated SGs.** **a** Representative confocal images of HeLa cells treated with either PBS (no stress) or 100  $\mu$ M arsenite (stress) for the indicated time in the absence (DMSO) or presence of the PARP inhibitor Olaparib (20  $\mu$ M). All cells are transfected with the hnRNP A1-Flag (anti-Flag) and stained for SGs by the anti-TIAR (arrowheads). The merge images with the DAPI staining for DNA (blue) are shown. **b-c** The percentage of cells with either SGs (**b**) or hnRNP A1+ SGs (**c**) from (**a**) is quantified. Mean  $\pm$  SEM;  $n$  = over 100 cells each condition from the pooled results of 3 independent repeats; \* $p$  < 0.05, \*\* $p$  < 0.01; ns, not significant; ud, undetected; Student's  $t$ -test. Scale bar: 5  $\mu$ m.